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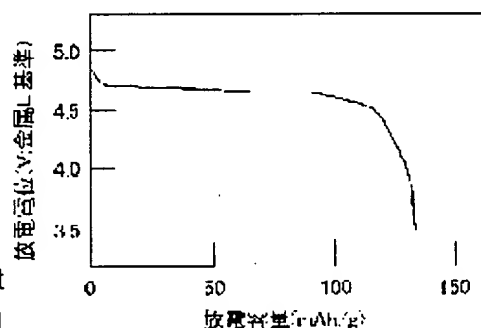
(54) POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY,
AND LITHIUM SECONDARY BATTERY

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a positive electrode active material for a lithium secondary battery with one discharge potential range, which at that, is 4.5 V or higher in metal lithium standards.

SOLUTION: The positive electrode active material includes Li, Mn, oxygen, and at least a kind of transition metal elements except Mn, Mn having a form valence of 4 or higher. With this active material, the valence of Mn is kept quadrivalent irrespective of charging or discharging. Since the valence of Mn does not change at the time of charging and discharging, discharge potential range around 4 V which would appear by the change of the Mn valence from trivalent to quadrivalent does not appear. Therefore, a discharge potential range can be set at 4.5 V or highs.

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